

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**PATENT**

In re application of: Hiroyuki HEBIGUCHI

Attorney Docket No.: ALPSP127

Application No.: Unassigned

Examiner: Unassigned

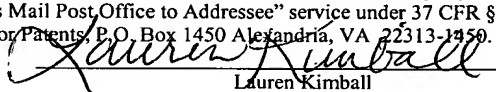
Filing Date: Herewith

Group: Unassigned

Title: LIQUID CRYSTAL DISPLAY DEVICE  
HAVING CONTRAST IMPROVED BY  
PREVENTING DISTURBANCE OF LIQUID  
CRYSTAL ORIENTATION DUE TO  
DISTURBANCE OF ELECTRIC FIELD IN  
APPLYING VOLTAGE

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this paper and the documents and/or fees referred to as attached therein are being deposited with the United States Postal Service on July 07, 2003 in an envelope as "Express Mail Post Office to Addressee" service under 37 CFR §1.10, Mailing Label Number EV333983574US, addressed to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

  
Lauren Kimball

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §§1.56 AND 1.97(c)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:


The references listed in the attached PTO Form 1449, copies of which are attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is being filed concurrently with the above-referenced patent application. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are

due, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-0388  
(Order No. ALPSP127).

Respectfully submitted,  
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<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  (Use Several Sheets if Necessary)	Atty Docket No.	Application No.:
	ALPSP127	Unassigned
	Applicant:	
	Hiroyuki HEBIGUCHI	
	Filing Date	Group
	Herewith	Unassigned

#### U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	6,452,653 B1	09/17/02	Yamanaka et al.			
	B	6,347,871 B2	02/19/02	Matsunaga et al.			
	C						
	D						
	E						
	F						
	G						
	H						
	I						

#### Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	J							
	K							
	L							
	M							
	N							

#### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	O	
	P	
	Q	
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.